

Engineering Heritage Australia Bulletin: #13

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Latest newsletter from the Institute of Electrical and Electronics Engineers (IEEE) History Centre

See below the link to the July newsletter from the IEEE History Centre, which electrical/electronic colleagues might like to know about it. The subject edition includes interesting articles about Oral History.

<https://www.ieee.org/content/dam/ieee-org/ieee/web/org/about/history-center/ieee-history-center-newsletter-116.pdf>

(From Francesco Gerali per favour of Dan Hayton and Margret Doring)

Register of Australian & New Zealand Ships & Boats: a comprehensive resource for maritime enthusiasts & historians

Over the last six years, Mori Flapan has undertaken a project aimed at promoting maritime history, and making it easily accessible. He and his wife have visited the locations of thousands of shipyards, ports and so on, and they have received a lot of help from local libraries, museums and history groups in their compilation of a historic register of Australian and New Zealand ships and boats - the register currently contains 62,000 records,

The project is still a work in progress with additions being made as more information comes to light. Consequently, Mori would welcome any information that can add to the register and maps.

While many of the locations have been recorded on his Maritime History Maps <http://www.boatregister.net/MaritimeHistoryMaps.htm> they cannot yet be regarded as comprehensive as they only include the information available to Mori during his visits. The map can be viewed in real time while 'on site' using a smartphone. It can also provide directions for getting to a location by car, public transport, or by foot.

Mori's map of Australian Ship and Boat

Builders <https://www.google.com/maps/d/edit?mid=1p3duFciKegk644g-UYUfKW-et9YJOGX8&usp=sharing>

is presently mainly focussed on Sydney, and like the rest of the project, is a work in progress.

We are grateful for Mori's generosity in permitting the publication of these links to his valuable research project.

(From Michael Clarke)

Sydney Harbour Trust

The Sydney Harbour Federation Trust ("Harbour Trust") protects and manages picturesque and historically significant places on Sydney Harbour. These include Cockatoo Island, Headland Park, North Head Sanctuary and others.

The following link, of their website, provides a wealth of interesting videos and digital talks on the places they protected in Sydney Harbour:

<https://www.harbourtrust.gov.au/en/digital-harbour/#mod-12939>

(From Doug Boleyn per favour of Margret Doring)

Tait trains are Back!

Tait trains fondly always known as the Red Rattlers were the ubiquitous electric trains on all the Melbourne suburban lines. They seemed to be there forever but were gradually phased out years ago. Some have been preserved and adapted to run safely on the modern systems (for heritage purposes). The link below shows Tait Train testing on the Werribee Line.

https://www.youtube.com/watch?v=z4vTQB_4sdM

(From Ken McInnes per favour of Margret Doring)

Review of NSW Heritage Act

As indicated in Bulletin #1, July 2021, The NSW Government is reviewing the NSW Heritage Act 1977.

In April 2021 the government asked the NSW Legislative Council's Social Issues Standing Committee to conduct an inquiry into the NSW Heritage Act. In May 2021 the Standing Committee formally commenced the review, with a public submissions period closing on 4 July 2021. Engineers Australia provided a response (attached).

NSW Legislative Council's Social Issues Standing Committee published the report of the review to the government on 22 October 2021.

The report of the Review is now available at [Report No. 59 - Standing Committee on Social Issues - Review of the Heritage Act 1977.pdf \(nsw.gov.au\)](https://www.nsw.gov.au/legislation/other-legislation/review-of-the-heritage-act-1977).

(From Michael Clarke)

Heritage NSW - updated publications

Heritage NSW has recently launched a new **‘Steps for managing heritage in NSW’** page on its website.

The page aims to provide easy access to publications that are most relevant to the three steps of heritage management: Investigating, Assessing and Managing.

You can access the page and relevant publications at the following link:

<https://www.heritage.nsw.gov.au/protecting-our-heritage/steps-for-managing-heritage-in-nsw/>

Heritage NSW has also just published an updated version of **‘Investigating Heritage Significance’** (2021).

The publication is available from the ‘Steps for managing heritage in NSW’ as well as from our main ‘Publications and Resources’ page:

<https://www.heritage.nsw.gov.au/search-for-heritage/publications-and-resources/>

This guideline is an updated version of ‘Investigating Heritage Significance’ (2004) which itself replaced sections of the NSW Heritage Manual including History and Heritage, Investigating History and Investigating Fabric (since removed from the website). The new guideline was prepared by Heritage NSW in consultation with the Heritage Council’s Heritage Advisory Panel.

Heritage NSW is preparing further publications update by the end of the year and in 2022, so stay tuned!

(From Michael Clarke)

Operating Heritage Australia

Operating Heritage Australia is an informal association of representatives of organisations caring for the movable heritage in Australia.

A panel from all sectors of the operating heritage community has selected a first list of “100 Treasures” of Australia’s moveable cultural heritage (attached). The panel requested interested members to review the list and provide comments.

Operating Heritage Australia also discusses how the public can help in protecting our moveable heritage as the current legislations appear to overlook the moveable heritage. Refer to the attachments for more details.

(From Neil Hogg)

New technical guide for Heritage Council of Victoria

A new technical guide *Mortars: materials, mixes and methods, a guide to repointing mortar joints in older buildings* has just been released by the Heritage Council of Victoria: https://heritagecouncil.vic.gov.au/research-projects/technicalguide_mortars/

Written by David Young OAM, an acknowledged expert in the use and application of traditional mortars, and supported by the heritage councils of each state, the new technical guide is an essential resource for anyone wishing to repair older stone or brick buildings in Australia.

(From Michael Clarke)

National Scientific Committee (NSC) on Industrial Heritage: call for new members

The NSC on Industrial Heritage aims to be a voice for industrial heritage advocating for the preservation, conservation, investigation, documentation, research and interpretation of Australia and the region's industrial heritage.

The NSC on Industrial Heritage is calling for new members. Any ICOMOS/TICCIH member with established or emerging expertise and interest in the field of industrial heritage may apply.

Non-ICOMOS/TICCIH members can apply in the Affiliate category. Membership categories are:

- Expert member – member of either ICOMOS or TICCH with a high level of expertise
- Affiliate member -non-Australia ICOMOS members who are engaged in activities relevant to the objective of the NSC and who can contribute to its work, or early career ICOMOS or TICCIH members with a strong interest who wish to develop expertise in Industrial Heritage.

If you are interested, please visit the [NSC IH page](#) on the Australia ICOMOS website for more information. To apply, please complete an [application form](#) and include a brief CV.

Date applications due: 10 December 2021

(From ICOMOS newsletter per favour of Max Underhill)

Contributions needed

Readers are invited to share news, bright ideas, issues of concern, advice about online talks – anything that would be of interest and helpful to others, by sending them to editor Firas Shawash at fshawash@yahoo.com for inclusion in the next Bulletin - more Australia-wide content would be appreciated.

Bill Phippen
Acting Chair, Engineering Heritage Sydney

OPERATING HERITAGE AUSTRALIA

An informal association of representatives of organisations
caring for an incredibly rich and diverse collection of
Australia's cultural heritage



Did you know that?

- Over 300,000 dedicated people are actively involved
- There are 3,000 organisations across Australia
- Over \$2 billion is spent each year, 99% self-funded
- 3½ million visitors per year enjoy the experience

More people are actively involved in operating heritage than the opera, ballet, theatre or Rugby League!

All experience the same problems:

- Inappropriate regulations
- High cost of compliance & insurance
- Loss of critical knowledge & skills
- Export of significant items
- Need financial and business support

Operating Heritage Australia initiatives

- Improve recognition of operating heritage sector by governments and regulators
- Investigate training and licensing options
- Identify items of outstanding significance and/or at risk

This month's featured subject - Legislation

There is no protection under Australian Federal law for items of movable heritage while they remain in Australia.

The Environmental Protection and Biodiversity Protection Act provides protection for landscapes, sites and buildings—but not movable heritage.

The Protection of Movable Cultural Heritage Act 1986 controls the import and export of "significant" items of cultural heritage—but does not provide any protection while the item is in Australia.

State Heritage Acts provide a level of protection for all types of heritage although in practice:

- Some states' Heritage Acts don't recognise movable heritage for inclusion on the State Heritage Register
- Of the more than 12,000 items on State Heritage Registers, fewer than 100 are items of movable heritage

Operating Heritage Australia and **Engineers Australia** are actively campaigning for improved recognition and protection of movable and intangible heritage.

Protection of Movable Cultural Heritage Act 1986

The image below shows a sample of items from the last year either illegally exported or threatened with export.



Clockwise from top left: GMH Archives; Ruston Proctor Traction Engine, Benz Sendling tractor; first Holden production racing car, Percival Gull, MacDonal tractor

Now, only items proven to be **significant** are protected from export (only 31 objects in 35 years).

Everything else can be exported unless enough evidence can be provided to show that the item is significant.

A Review of the Act in 2015 recommended improvements including a requirement that anyone wanting to export historical items must show that the item is not significant.

After six years and in spite of overwhelming support, the government has not implemented the changes.

Can you help?

If you know of any significant items under threat, phone the Cultural Property Section of the Department of the Arts on **1800 819 461** or by e-mail at **Movable.Heritage@arts.gov.au** and explain the situation. They will ensure that an Expert Examiner assesses the item.

It will help enormously if you can provide information demonstrating how the object is significant:

- The item's history
 - How it affected the community
 - Who was affected
- It's importance as an example of technical development
- How many of this model still exist – is it rare?
- If it is a representative example - authentic, complete?

Write to your local member demanding that the new PMCH Act be completed and implemented. Explain your organisation's contribution to the community and the need for better protection for our significant movable heritage

For more information suitable for your club please e-mail operatingheritageaustralia@gmail.com

OPERATING HERITAGE AUSTRALIA



Natural

Historical



Indigenous



For many people, this is "heritage"

But this is also heritage – movable heritage.



Currently, there is very little recognition or protection for this type of heritage. Across Australia, movable items make up less than 2% of officially recognised heritage items.

Clearly this is a very unbalanced view of heritage and Operating Heritage Australia is compiling a list of "Treasures" to demonstrate the range and quality of Australia's operating heritage and which deserve to be preserved.

We would like to know what you believe are Australia's movable heritage treasures. It will help to get official recognition with government and other heritage organisations for our heritage if you can provide some information with your "Treasure" nominations.

• Description of the make and model

• Do we know its history?



- Where was it made?
- Where was it used?
- What did it do?

• Is it associated with a particular person, place or group?

- How did it affect society?
- Who benefited?
- Did it lead to other changes?



• What does it tell us about Australian life when it was used?

- Is it associated with someone famous?
- Is it important to your town or club or family?



• Is it representative of a particular type or style?



- Is it authentic?
- Is it complete & in good condition?

• Does it demonstrate creative or technical achievement?



• Is it important for future generations to learn from?

- What knowledge & skills are needed for its operation and survival?
- Does it demonstrate, inform and educate about our past?



• Is it rare? Is it under threat?



- How many remain in Australia?
- How is it under threat? (eg. by sale overseas, neglect, vandalism)

A panel from all sectors of the operating heritage community has selected a first list of "100 Treasures" of Australia's movable cultural heritage.

We know that there are many more. Please review the list and go to the link to tell us which items you believe should be included.

AUSTRALIA'S MOVABLE HERITAGE



100 TREASURES

This list has been compiled by
**OPERATING HERITAGE
AUSTRALIA** from suggestions
made by many heritage groups.

Private Motor Vehicles

- 1906 Black Model 112 Motor Buggy
- 1906 Spencer Motorcycle
- 1924 Vauxhall 30/98 Tourer "Presentation Car"
- 1932 Chev Moonlight Tourer
- 1966 Mini Moke
- 1974 Leyland P76 Force 7V (Goss, Bartlett, Moffatt)
- 1914 Victor Motorcycle and Sidecar
- 1919-1926 Australian Six
- 1986 Fuel Challenge Car

Commercial & Military Vehicles

- 1936 Leyland Badger (Ted Kruse)
- 1912 Daimler bus
- 1948 Chamberlain "Tail end Charlie"
- Caldwell Vale Truck 1911
- 1911 Girling Parcel Carrier
- 1933 Ford Roadster Utility
- 1922 Dodge 4 Semi Trailer
- 1942 Dingo Scout Car
- 1942-43 Sentinel Tank
- 1971-75 Kenworth trucks

Tractors & Agricultural Machinery

- Marshall Oil Tractors
- MacDonald EB & EAA
- Hornsby Akroyd Oil Tractor
- Caldwell Vale 4wd tractor
- Hedlie Taylor Header
- Caldwell Vale 1910 Truck
- Sunshine Harvester
- Ruston Proctor (Holt) tractor
- Big Lizzie
- Howard 1929 Rotary Hoe

Steam Vehicles and Portables

- All Allchin Wagons
- Marshall Instructional Compound Horizontal Engine
- Humble Portable
- Tuxford Portable
- Salisbury Steam Roller (Tas)
- Fowler Z7 Ploughing Engines
- Fowler BAA Colonial
- Marshall S-Type Steam Roller
- Foden Steam Truck
- Welch Perrin Sales Books

Stationary Machinery

- Boulton & Watt Beam Engine
- McNaught Beam Engine
- Maudslay Beam Engine
- LSAFM Machinery
- Richmond Vale Power Station
- Wolseley Shearing Equipment
- Humphrey Pump
- Goulburn Water Beam Engine
- Pedal Radio/Generator
- Southern Cross Windmill

Maritime Vessels

- James Craig
- Waratah Tug
- Lady Hopetoun
- Boomerang
- South Steyne Ferry
- John Oxley
- Polly Woodside and Dock
- PS Ruby
- Australia II
- HMAS Castlemaine

Light Rail and Trams

- NSW Steam Tram & Trailers
- Melbourne Cable Car Set No.1
- Sydney C Class
- Brisbane Car 47
- Melbourne Car 41 (W2 Style)
- 4-6-0T Hunslet 306 (AWM)
- Dubs 0-4-2T Mt Lyell No.1

- Comeng 0-6-0DM Mulgrave No.5
- 0-6-3T Fowler Invicta
- Purcell 0-4-0PM Vanguard

Main Line Rail

- Silver City Comet
- NSW No.1
- VR Suburban Electric Tait set
- WAGR 2-6-0 G class loco (Australian Mogul)
- NSW Std Goods 5096
- VR B class diesel
- ROD
- 0-4-2 Neilson QR No.6
- SAR 620
- Kitson 2-2-0WT NJAB1 rail car

Civil Aviation

- Bristol M1c Monoplane VH-UQI
- Boeing 707-138B VH-XBA
- Douglas DC3 VH-ANR
- Short Scion
- Fokker FV11 Southern Cross
- Vickers Vimy G-EAOU
- Duigan Biplane
- Avro Avian Cirrus MkII G-EBOV
- Bleriot XI Monoplane
- Westland Widgeon (UHI or UHU)

Military Aviation

- Consolidated B24M Liberator A72-176
- CAC Wackett Trainer A3-22
- Curtiss P40N Kittyhawk
- SE5A Scout A2-4
- Avro Lancaster Mk 1 "G for George"
- Spitfire (TAM)
- Avro Anson (TAM)
- Catalina (HARS)
- Vultee Vengeance EZ999
- CAC Boomerang A46-30

We know that this is just the beginning. Please tell us what you believe should be included in a list of Treasures

Please go to this link [Significant items - Google Forms](#) and nominate your Treasures or e-mail us on operatingheritageaustralia@gmail.com